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33 704/500/CCLS
24 704/501/CCLS
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L1 107 704/500,501,502,503,504/CCLS
    ((704/500 OR 704/501 OR 704/502 OR 704/503 OR 704/504)/CCLS)
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S 11 704/504

1. 5,680,512, Oct. 21, 1997, Personalized low bit rate audio encoder and decoder using special libraries; Irving Rabowsky, et al., 704/504; 84/604, 645; 704/220, 258, 501 [IMAGE AVAILABLE]
2. 5,677,994, Oct. 14, 1997, High-efficiency encoding method and apparatus and high-efficiency decoding method and apparatus; Shinji Miyamori, et al., 704/501; 375/243; 704/504 [IMAGE AVAILABLE]
3. 5,675,703, Oct. 7, 1997, Apparatus for decoding compressed and coded sound signal; Hirofumi Sato, 704/230; 370/477; 375/240; 704/258, 501, 504 [IMAGE AVAILABLE]
4. 5,640,489, Jun. 17, 1997, Audio synthesizer time-sharing its first memory unit between two processors; Makoto Furuhashi, 704/504; 84/604, 627; 704/258; 711/147 [IMAGE AVAILABLE]
5. 5,632,005, May 20, 1997, Encoder/decoder for multidimensional sound fields; Mark F. Davis, et al., 704/504; 381/22, 23; 704/205, 220, 229, 230 [IMAGE AVAILABLE]
6. 5,612,869, Mar. 18, 1997, Electronic health care compliance assistance; Alan M. Letzt, et al., 705/3; 704/251, 501, 504 [IMAGE AVAILABLE]
7. 4,701,937, Oct. 20, 1987, Signal storage and replay system; Shyue-Yun Wan, et al., 375/242; 365/189.01, 230.06; 704/504 [IMAGE AVAILABLE]
8. 4,412,306, Oct. 25, 1983, System for minimizing space requirements for storage and transmission of digital signals; Edward W. Moll, 364/715.02, 926, 933.3, 934, 934.71, 940.81, 942.7, 943.9, 944.91, 947, 947.2, 951.1, 951.3, 953, 953.7, DIG.2; 434/157; 704/504 [IMAGE AVAILABLE]
9. 4,280,192, Jul. 21, 1981, Minimum space digital storage of analog information; Edward W. Moll, 341/155; 364/919.2, 919.4, 926, 926.1, 926.4, 933.3, 942.7, 942.8, 947, 947.2, 947.6, 951.1, 951.3, 951.5, DIG.2; 704/504 [IMAGE AVAILABLE]
10. 3,598,921, Aug. 10, 1971, METHOD AND APPARATUS FOR DATA COMPRESSION BY A DECREASING SLOPE THRESHOLD TEST; T. O. Administrator of the National Aeronautics and Space Administration with respect to an invention of Paine, et al., 340/870.05; 704/504 [IMAGE AVAILABLE]
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664; 704/503; 984/326, DIG.1 [IMAGE AVAILABLE]

15. 4,311,876, Jan. 19, 1982, Route guidance system for roadway vehicles;
Hiroshi Endo, et al., 455/456; 340/905; 370/521; 704/503 [IMAGE AVAILABLE]

16. 3,949,175, Apr. 6, 1976, Audio signal time-duration converter; Toshio
Tanizoe, et al., 704/503 [IMAGE AVAILABLE]

17. 3,936,611, Feb. 3, 1976, Time compression scanner; Margaret A. Poole,
704/503; 379/34, 290, 384 [IMAGE AVAILABLE]

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1. 5,668,923, Sep. 16, 1997, Voice messaging system and method making efficient use of orthogonal modulation components; Kazimierz Siwiak, et al., 704/204; 381/15, 16; 704/500, 503 [IMAGE AVAILABLE]
 2. 5,634,082, May 27, 1997, High efficiency audio coding device and method therefore; Osamu Shimoyoshi, et al., 704/229, 201, 224, 226, 503 [IMAGE AVAILABLE]
 3. 5,627,939, May 6, 1997, Speech recognition system and method employing data compression; Xuedong Huang, et al., 704/256, 222, 500, 503 [IMAGE AVAILABLE]
 4. 5,617,507, Apr. 1, 1997, Speech segment coding and pitch control methods for speech synthesis systems; Chong R. Lee, et al., 704/200, 500, 503 [IMAGE AVAILABLE]
 5. 5,490,167, Feb. 6, 1996, Duplex voice communication radio transmitter-receiver; Fujio Sumi, et al., 375/219; 370/276, 521; 375/240, 364; 704/503 [IMAGE AVAILABLE]
 6. 5,319,801, Jun. 7, 1994, Seamless frequency hopping system; Manuel F. Richey, et al., 455/79; 375/202; 455/234.1; 704/503 [IMAGE AVAILABLE]
 7. 5,131,042, Jul. 14, 1992, Music tone pitch shift apparatus; Mikio Oda, 704/503; 84/605 [IMAGE AVAILABLE]
 8. 4,864,566, Sep. 5, 1989, Precise multiplexed transmission and reception of analog and digital data through a narrow-band channel; Claude J. Chauveau, 370/521, 522, 535; 704/503 [IMAGE AVAILABLE]
 9. 4,837,827, Jun. 6, 1989, Method for transmitting two independent types of information and device for implementing the method; Artur Bardl, et al., 704/503 [IMAGE AVAILABLE]
 10. 4,700,393, Oct. 13, 1987, Speech synthesizer with variable speed of speech; Sigeaki Masuzawa, et al., 704/503 [IMAGE AVAILABLE]
 11. 4,672,641, Jun. 9, 1987, Surface acoustic wave device for data rate reduction; Kuo-Hsiung Yen, et al., 375/240; 364/827; 704/503 [IMAGE AVAILABLE]
 12. 4,518,994, May 21, 1985, Communication system compandor; Paul Schnitzler, 348/390; 704/503 [IMAGE AVAILABLE]
 13. 4,426,711, Jan. 17, 1984, Process for the transmission of service signals for a digital radio beam, as well as transmitter and receiver for using such a process; Alain Huriau, 375/286, 240; 704/503 [IMAGE AVAILABLE]
 14. 4,369,336, Jan. 18, 1983, Method and apparatus for producing two complementary pitch signals without glitch; Anthony Agnello, 381/61; 84/631,

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1. 5,157,728, Oct. 20, 1992, Automatic length-reducing audio delay line; Eric R. Schorman, et al., 704/502 [IMAGE AVAILABLE]
 2. 4,200,810, Apr. 29, 1980, Method and apparatus for averaging and stretching periodic signals; Gerald D. Cain, et al., 327/174, 172, 263, 552; 704/502 [IMAGE AVAILABLE]
 3. 4,173,003, Oct. 30, 1979, Deltic (time compressor) with adjustable multiplication ratio; Fred W. Thies, 333/165; 327/286; 333/144; 377/49, 54; 704/502 [IMAGE AVAILABLE]
 4. 3,914,554, Oct. 21, 1975, COMMUNICATION SYSTEM EMPLOYING SPECTRUM FOLDING; Harold Seidel, 704/502; 370/477, 480 [IMAGE AVAILABLE]
 5. 3,860,760, Jan. 14, 1975, ELECTRONIC TIME COMPRESSOR OR EXPANDER; Otto E. Rittenbach, 327/100, 113; 360/8; 704/502 [IMAGE AVAILABLE]
 6. 3,809,805, May 7, 1974, VIDEO BANDWIDTH REDUCTION; Vincent Kasprzak, 386/68; 348/388; 360/23; 704/502 [IMAGE AVAILABLE]
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signal band; Alban Graf, et al., **704/501**; 370/477; 380/36, 38 [IMAGE AVAILABLE]

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1. 5,680,512, Oct. 21, 1997, Personalized low bit rate audio encoder and decoder using special libraries; Irving Rabowsky, et al., 704/504; 84/604, 645; 704/220, 258, 501 [IMAGE AVAILABLE]
2. 5,677,994, Oct. 14, 1997, High-efficiency encoding method and apparatus and high-efficiency decoding method and apparatus; Shinji Miyamori, et al., 704/501; 375/243; 704/504 [IMAGE AVAILABLE]
3. 5,675,703, Oct. 7, 1997, Apparatus for decoding compressed and coded sound signal; Hirofumi Sato, 704/230; 370/477; 375/240; 704/258, 501, 504 [IMAGE AVAILABLE]
4. 5,673,364, Sep. 30, 1997, System and method for compression and decompression of audio signals; Leon Bialik, 704/501, 500 [IMAGE AVAILABLE]
5. 5,621,760, Apr. 15, 1997, Speech coding transmission system and coder and decoder therefor; Hiroki Gotoh, et al., 375/245; 341/76, 143; 375/249; 704/200, 230, 501 [IMAGE AVAILABLE]
6. 5,612,869, Mar. 18, 1997, Electronic health care compliance assistance; Alan M. Letzt, et al., 705/3; 704/251, 501, 504 [IMAGE AVAILABLE]
7. 5,490,170, Feb. 6, 1996, Coding apparatus for digital signal; Kenzo Akagiri, et al., 375/240; 704/501 [IMAGE AVAILABLE]
8. 5,463,424, Oct. 31, 1995, Multi-channel transmitter/receiver system providing matrix-decoding compatible signals; Roger W. Dressler, 348/485; 381/22; 704/501 [IMAGE AVAILABLE]
9. 5,159,611, Oct. 27, 1992, Variable rate coder; Yoshihiro Tomita, et al., 375/254; 380/41; 704/501 [IMAGE AVAILABLE]
10. 5,105,463, Apr. 14, 1992, System for subband coding of a digital audio signal and coder and decoder constituting the same; Raymond N. J. Veldhuis, et al., 704/501 [IMAGE AVAILABLE]
11. 5,020,104, May 28, 1991, Method of reducing the useful bandwidth of bandwidth-limited signals by coding and decoding the signals, and system to carry out the method; Dan Ciulin, 380/6; 375/238, 240; 380/38; 704/501 [IMAGE AVAILABLE]
12. 4,944,012, Jul. 24, 1990, Speech analyzing and synthesizing apparatus utilizing differential value-based variable code length coding and compression of soundless portions; Tomokazu Morio, et al., 704/501; 375/245, 246 [IMAGE AVAILABLE]
13. 4,903,301, Feb. 20, 1990, Method and system for transmitting variable rate speech signal; Kazuhiro Kondo, et al., 704/501; 375/240 [IMAGE AVAILABLE]
14. 4,771,345, Sep. 13, 1988, Reproducing apparatus; Osamu Watanabe, 360/8, 21, 31, 64, 73.07; 386/75; 704/501 [IMAGE AVAILABLE]
15. 4,267,407, May 12, 1981, Method and apparatus for the transmission of speech signals; Hans R. Schindler, et al., 704/501; 370/435 [IMAGE AVAILABLE]
16. 4,091,242, May 23, 1978, High speed voice replay via digital delta modulation; Francis Paul Carrubba, et al., 704/501; 375/247 [IMAGE AVAILABLE]
17. 4,071,707, Jan. 31, 1978, Process and apparatus for improving the utilization of transmission channels through thinning out sections of the

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27. 4,307,380, Dec. 22, 1981, Transmitting signals over alternating current power networks; Jean-Gabriel Gander, 340/310.03; 178/66.1; 340/310.02; 375/200, 272; 704/500 [IMAGE AVAILABLE]

28. 4,109,243, Aug. 22, 1978, Data sequence display system and time-compression system therefor; Christopher Cameron Day, et al., 340/870.05, 870.07, 870.19; 346/33ME; 704/500 [IMAGE AVAILABLE]

29. 4,092,603, May 30, 1978, System for obtaining pulse compression in the frequency domain; John B. Harrington, 375/349, 321; 455/303; 704/500 [IMAGE AVAILABLE]

30. 3,962,639, Jun. 8, 1976, System for reducing radio communication frequency bandwidth and increasing number of channels available; David W. Kermode, 455/42, 59, 266; 704/500 [IMAGE AVAILABLE]

31. 3,962,535, Jun. 8, 1976, Conditional replenishment video encoder with sample grouping and more efficient line synchronization; Barin Geoffry Haskell, 348/415; 375/366; 704/500 [IMAGE AVAILABLE]

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704/500

tape recorder; Cheolwoong Mok, **704/500**; 341/50, 95; 360/8, 32 [IMAGE AVAILABLE]

18. 5,185,800, Feb. 9, 1993, Bit allocation device for transformed digital audio broadcasting signals with adaptive quantization based on psychoauditive criterion; Yannick Mahieux, **704/500** [IMAGE AVAILABLE]

19. 5,159,636, Oct. 27, 1992, Audio signal expander apparatus; Gary Rogalski, **704/500** [IMAGE AVAILABLE]

20. 5,155,771, Oct. 13, 1992, Sparse superlattice signal processor; George Carayannis, et al., **704/500** [IMAGE AVAILABLE]

21. 5,136,618, Aug. 4, 1992, Method and apparatus for bandwidth reduction of modulated signals; Laurence E. Wright, Jr., 375/240; 358/426; 704/500 [IMAGE AVAILABLE]

22. 5,136,586, Aug. 4, 1992, Method and apparatus for telephone line multiplex channeling of toll-quality voice and digital information; Richard D. Greenblatt, 370/529, 495; 379/88, 93.08; 704/500 [IMAGE AVAILABLE]

23. 5,043,676, Aug. 27, 1991, Automatic level control circuit; Takeshi Sato, et al., 330/284, 306; 333/17.1; 704/500 [IMAGE AVAILABLE]

24. 4,922,535, May 1, 1990, Transient control aspects of circuit arrangements for altering the dynamic range of audio signals; Ray M. Dolby, **704/500**; 333/14; 381/106 [IMAGE AVAILABLE]

25. 4,700,390, Oct. 13, 1987, Signal synthesizer; Kenji Machida, **704/500**; 84/660, 661, 663; 381/28, 61; 984/328, DIG.1 [IMAGE AVAILABLE]

26. 4,370,524, Jan. 25, 1983, Circuit for time compression and expansion of audio signals; Seisuke Hiraguri, **704/500** [IMAGE AVAILABLE]

S 33 704/500

1. 5,684,923, Nov. 4, 1997, Methods and apparatus for compressing and quantizing signals; Hiroshi Suzuki, et al., 704/229, 203, 224, 230, 263, 500 [IMAGE AVAILABLE]
2. 5,673,364, Sep. 30, 1997, System and method for compression and decompression of audio signals; Leon Bialik, 704/501, 500 [IMAGE AVAILABLE]
3. 5,668,923, Sep. 16, 1997, Voice messaging system and method making efficient use of orthogonal modulation components; Kazimierz Siwiak, et al., 704/204; 381/15, 16; 704/500, 503 [IMAGE AVAILABLE]
4. 5,654,952, Aug. 5, 1997, Digital signal encoding method and apparatus and recording medium; Hiroshi Suzuki, et al., 369/124, 47; 704/500 [IMAGE AVAILABLE]
5. 5,649,053, Jul. 15, 1997, Method for encoding audio signals; Sang-Wook Kim, 704/229, 230, 500 [IMAGE AVAILABLE]
6. 5,627,939, May 6, 1997, Speech recognition system and method employing data compression; Xuedong Huang, et al., 704/256, 222, 500, 503 [IMAGE AVAILABLE]
7. 5,617,507, Apr. 1, 1997, Speech segment coding and pitch control methods for speech synthesis systems; Chong R. Lee, et al., 704/200, 500, 503 [IMAGE AVAILABLE]
8. 5,602,837, Feb. 11, 1997, Multiplex system for a personal handy phone system; Hideaki Takahashi, 370/280, 385, 435, 524; 375/240; 455/466; 704/500 [IMAGE AVAILABLE]
9. 5,533,012, Jul. 2, 1996, Code-division multiple-access system with improved utilization of upstream and downstream channels; Atsushi Fukasawa, et al., 370/342, 208; 375/208; 704/500 [IMAGE AVAILABLE]
10. 5,530,750, Jun. 25, 1996, Apparatus, method, and system for compressing a digital input signal in more than one compression mode; Kenzo Akagiri, 380/4, 3, 28, 46, 49; 704/500 [IMAGE AVAILABLE]
11. 5,481,182, Jan. 2, 1996, Up/down spectrum scaling of signals; Gopalkrishna G. Nadkarni, et al., 324/76.24, 76.38; 364/179; 704/500 [IMAGE AVAILABLE]
12. 5,479,445, Dec. 26, 1995, Mode dependent serial transmission of digital audio information; Kevin L. Kloker, et al., 375/220, 290; 704/500 [IMAGE AVAILABLE]
13. 5,477,110, Dec. 19, 1995, Method of controlling a field emission device; Robert T. Smith, et al., 315/169.3, 169.4; 348/398; 704/500 [IMAGE AVAILABLE]
14. 5,457,685, Oct. 10, 1995, Multi-speaker conferencing over narrowband channels; Terrence G. Champion, 370/260, 468; 379/202; 704/500 [IMAGE AVAILABLE]
15. 5,454,011, Sep. 26, 1995, Apparatus and method for orthogonally transforming a digital information signal with scale down to prevent processing overflow; Osamu Shimoyoshi, 375/240, 242; 704/500 [IMAGE AVAILABLE]
16. 5,299,240, Mar. 29, 1994, Signal encoding and signal decoding apparatus; Naoto Iwahashi, et al., 375/240; 358/433; 704/500 [IMAGE AVAILABLE]
17. 5,197,101, Mar. 23, 1993, Data compression circuit of a digital audio

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L1 107 S 704/500,501,502,503,504/CCLS
L2 3168 S (UNIVERSAL OR GENERIC) (5A) (INTERFAC### OR ADAPT####)
L3 141 S (DATA(2W) FORMAT###) (5A) RECOGNI#####
L4 1 S L2 (L) L3
L5 0 S L2 AND L1
L6 0 S L3 AND L1

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13. 5,524,061, Jun 4, 1996, Dual mode transducer a portable receiver; Charles W. Mooney, et al., 381/151, 193, 200, 203 [IMAGE AVAILABLE]

14. 5,349,701, Sep. 20, 1994, Method and apparatus for broken link detect using audio energy level; Gary S. Lobel, 455/222; 375/351; 455/212, 226.2 [IMAGE AVAILABLE]

\ 15. 5,268,846, Dec. 7, 1993, Method and apparatus for nonsequential multimedia data interchange in a data processing system; Gordon W. Bonsall, et al., 395/200.61; 370/472; 395/200.66 [IMAGE AVAILABLE]

\ 16. 5,262,964, Nov. 16, 1993, Method and apparatus for variable playback speed of multimedia data interchange within a data processing system; Gordon W. Bonsall, et al., 395/200.76; 348/705; 370/472; 375/242 [IMAGE AVAILABLE]

17. 4,607,364, Aug. 19, 1986, Multimode data communication system; Jeffrey Neumann, et al., 370/470, 476, 506, 524, 528 [IMAGE AVAILABLE]

18. 4,053,715, Oct. 11, 1977, Stuffing channel unit for telephone PCM system; Paul E. Drapkin, 370/506, 509 [IMAGE AVAILABLE]

19. 4,009,389, Feb. 22, 1977, Apparatus for the automatic counting of passengers; Ulf Lindholm, 250/221; 340/555; 377/6, 53 [IMAGE AVAILABLE]

20. 4,009,347, Feb. 22, 1977, Modular branch exchange and nodal access units for multiple access systems; Donald C. Flemming, et al., 370/321; 455/509 [IMAGE AVAILABLE]

21. 4,009,346, Feb. 22, 1977, Distributional activity compression; Brian E. Parker, et al., 370/345, 341, 359, 369; 375/222; 455/12.1, 72 [IMAGE AVAILABLE]

22. 4,009,345, Feb. 22, 1977, External management of satellite linked exchange network; Donald C. Flemming, et al., 370/321, 327, 336, 442; 455/8 [IMAGE AVAILABLE]

23. 4,009,344, Feb. 22, 1977, Inter-related switching, activity compression and demand assignment; Donald C. Flemming, 370/321; 455/12.1 [IMAGE AVAILABLE]

24. 4,009,343, Feb. 22, 1977, Switching and activity compression between telephone lines and digital communication channels; Harold G. Markey, et al., 370/321; 455/17 [IMAGE AVAILABLE]